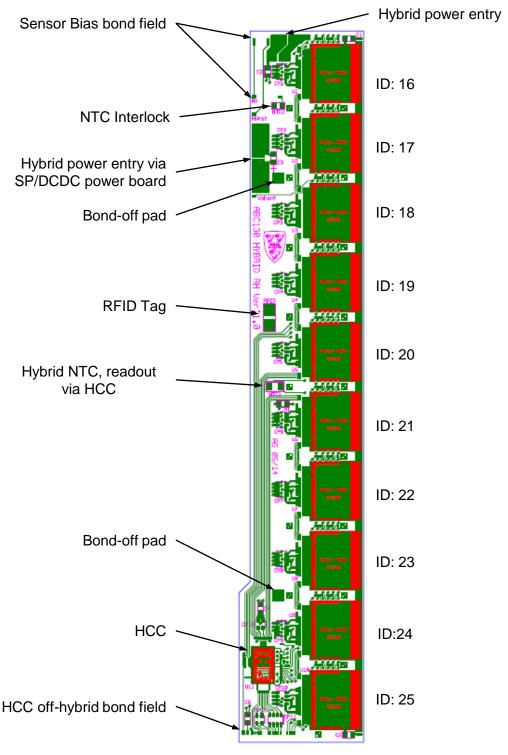
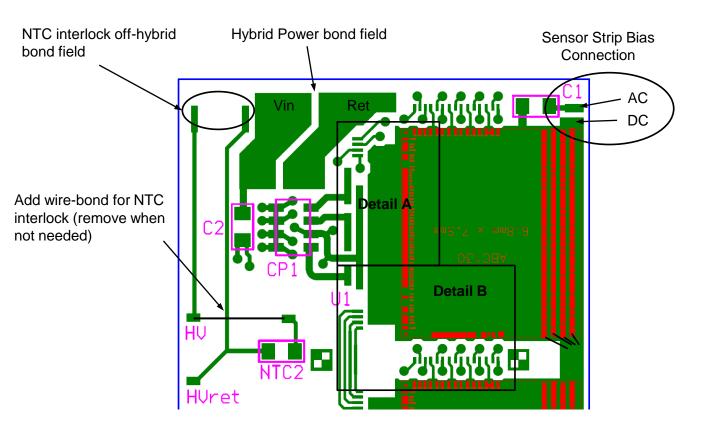
ABC130 Hybrid RH Ver: 1.0 Wire-bonding and Connection detail

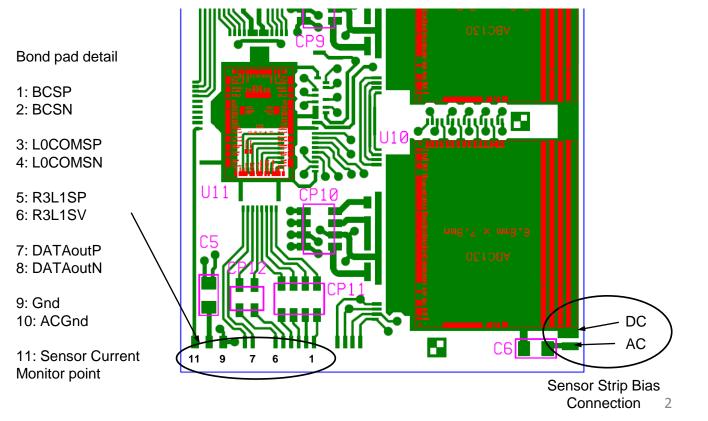
Designed for 10 x ABC130s which connect up to a single HCC (for data I/O and monitoring). The readout topology is based on two groups of five ABC130s (ID16 to ID20 and ID21 to ID25), with bidirectional readout, connecting up to the HCC.

There is also the ability to bypass the HCC, to provide readout of a single column of 10 x ABC130s (see page 5).

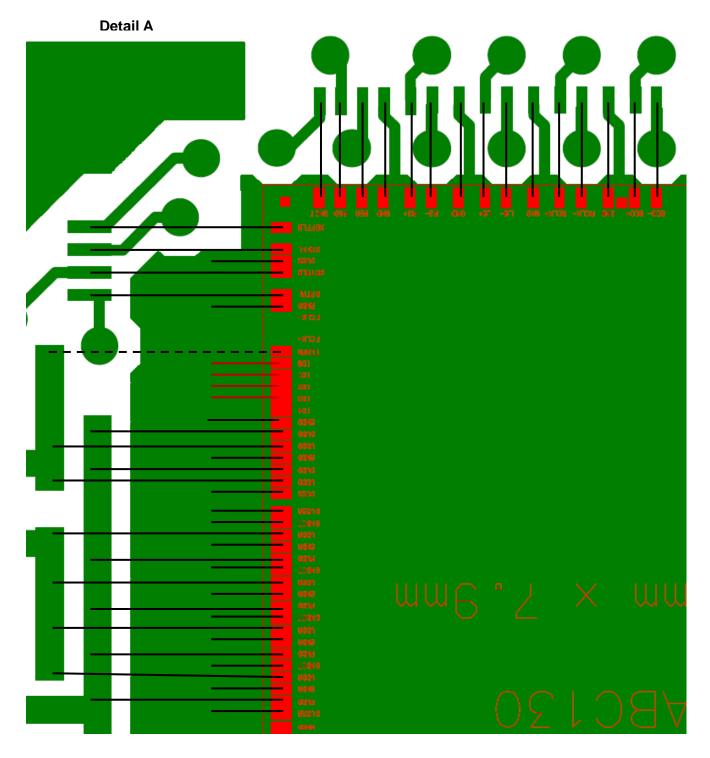


Power entry and Hybrid I/O detail





ABC130 bond detail - identical for ALL asics except for ChipID and TERMR



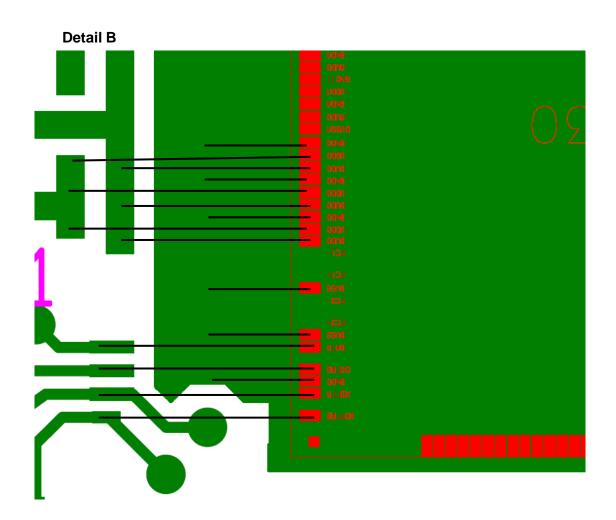
- The dashed line is a bond required at ABC130 locations U1, U2 and U3 only
- The red lines are for the ChipID (0-4) which is unique for each ABC130 (see following page)
 - The ID shown above is for location U1 (ChipID:16)

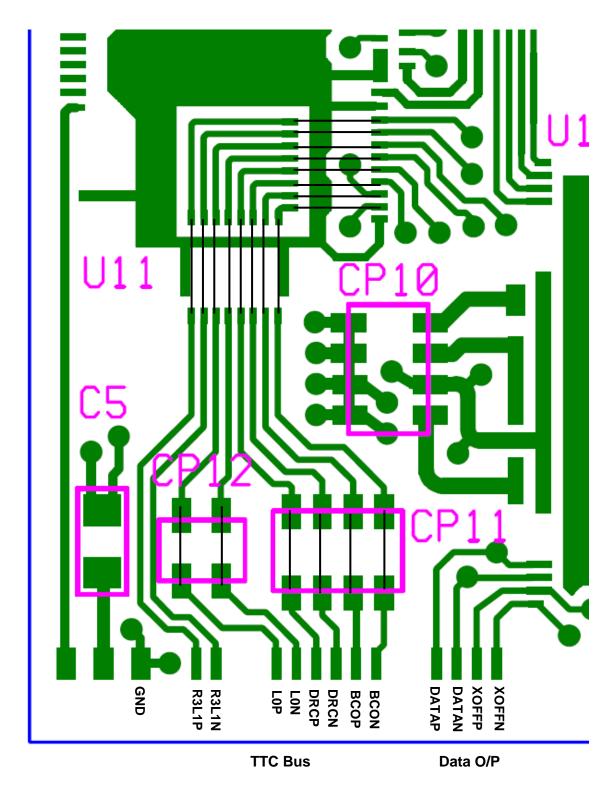
ABC130 bond detail cont'd

ABC130 ChipIDs

	16	17	18	19	20	21	22	23	24	25
ID4										
ID3	•	•	•	•	•	•	•	•		
ID2	•	•	•	•					•	•
ID1	•	•			•	•			•	•
ID0	•		•		•		•		•	

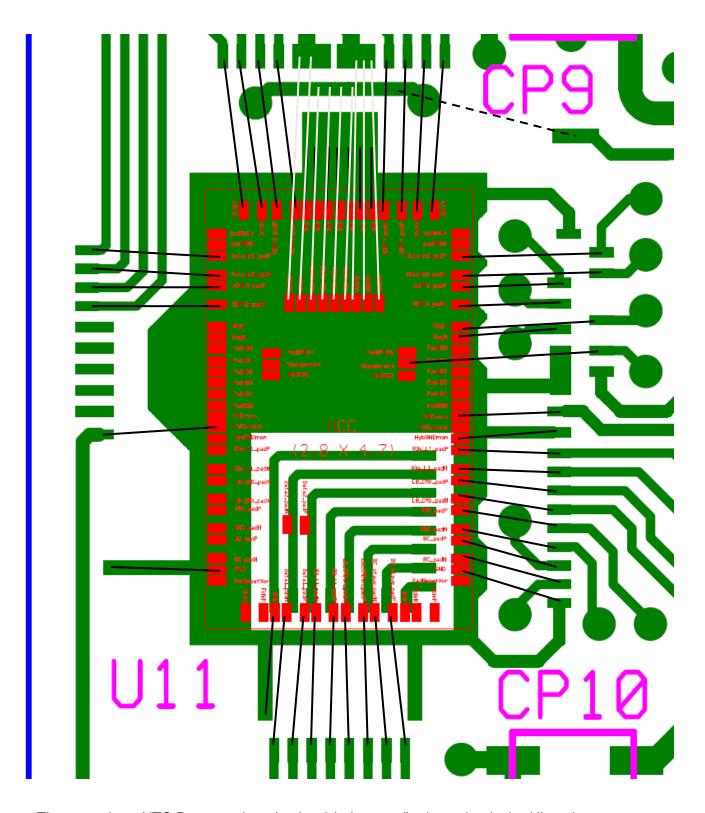
• Wire bond present





Capacitor arrays CP11 and CP12 not to be placed (shorting links added)

HCC bond detail



There are three NTC Power options (option 2 being used), shown by dashed line above:

- 1. HalfVDD (connect to HCC)
- 2. Unregulated VDD, 1.5V
- 3. Regulated VDD, 1.2V